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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/076,300	02/19/2002	Osamu Okuda	2002-0260	1215
•	7590 09/26/2003			
WENDEROTH, LIND & PONACK L.L.P. Suite 800 2033 "K" Street N.W.			EXAMINER	
			TRINH, MINH N	
Washington, D	OC 20006		ART UNIT PAPER NUMBER	
			3729	
			DATE MAILED: 09/26/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>						
	Application No.	Applicant(s)				
Office Action Summer	10/076,300	OKUDA ET AL.				
Office Action Summary	Examin r	Art Unit				
The MAN INC DATE of this communication	Minh Trinh	3729				
Th MAILING DATE of this communication appears on the cover she t with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status						
1) Responsive to communication(s) filed on 19 F	<u>ebruary 2002</u> .					
2a) ☐ This action is FINAL . 2b) ☑ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	ex parte Quayle, 1955 C.D. 11, 4	55 O.G. 215.				
4)⊠ Claim(s) <u>13 and 14</u> is/are pending in the applic	cation.					
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>13 and 14</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13)⊠ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)⊠ All b)□ Some * c)□ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No. 08/917,370.						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. & 119(a) (to a provisional application)						
 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) ☐ The translation of the foreign language provisional application has been received. 						
15)⊠ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.						
Attachment(s)						
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2 	5) Notice of Informal F	(PTO-413) Paper No(s) Patent Application (PTO-152)				

DETAILED ACTION

Specification

- 1. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed. The following title is suggested: Method of Mounting Component on Circuit Board.
- 2. The abstract of the disclosure should be revised to reflect the method claims. Correction is required. See MPEP § 608.01(b).

Claim Objections

3. "A component" (claim 14, line 1) should be: -- The component -- as to reflect the dependent claim formats.

Claim Rejections - 35 USC § 112

- 4. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.
- 5. Claims 13-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. The following are examples:

It is not clear whether the limitation recites: "a component remained" (claim 13, line 12) is the same as "a component " as previously cited in claim 13, line 3.

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The phrase: "the like material" (claim 13, line 13) lacks antecedent basis. Also, the term: "like " material is indefinite because it is uncertain as to what material is being referred as "the like material".

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 7. Claims 13-14, as understood are rejected under 35 U.S.C. 103(a) as being unpatentable over Applicant Admitted Prior Art [APA] (under the background of the invention, pages 1-3.

APA (in light of the Specification, at page 1-3, and Fig. 5) discloses a component mounting method comprising steps of: carrying a circuit board 43 to a component mounting position and sucking up a component by a suction nozzle 49 of a head; moving the component sucked to the nozzle of the head to the mounting position (as the discussion in page 1, lines 15-20); mounting the component 44 to a specified site of

the PCB 43 after the mounting, transferring a circuit board 43 with respect to the component mounting position (see page 2, lines 10-15); moving head to above a component discarding box during the transferring of the PCB (page 2, lines 8-10, noted that the nozzle station including discarding box). Regarding the limitation feeding compressed air to one of suction nozzles of the head so as to remove a component remained at the suction nozzle due to vacuum residual pressure while dust and like material that is sticking to the suction nozzle is removed away simultaneously. It is inherently to pressurize the suction nozzle with air for the benefits of cleaning and house keeping the passage of the suction nozzle in order to facilitate the operation process.

The limitation as recited in claim 14 is also met as the discussion above. (Note the transferring a circuit board to it mounting position (see Fig. 5, and page 2, lines 4-5) read on the "condition statement" when the circuit board is transferred as recited in the claim).

Conclusion

- 8. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The prior art teaching of method for mounting component on the PCB.
- 9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh Trinh whose telephone number is (703) 305-2887. The examiner can normally be reached on Monday -Thursday 8:00 am to 4:30 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Vo can be reached on (703) 308-1789. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-1148.

Examiner, AU 3729

Mt 9/18/2003